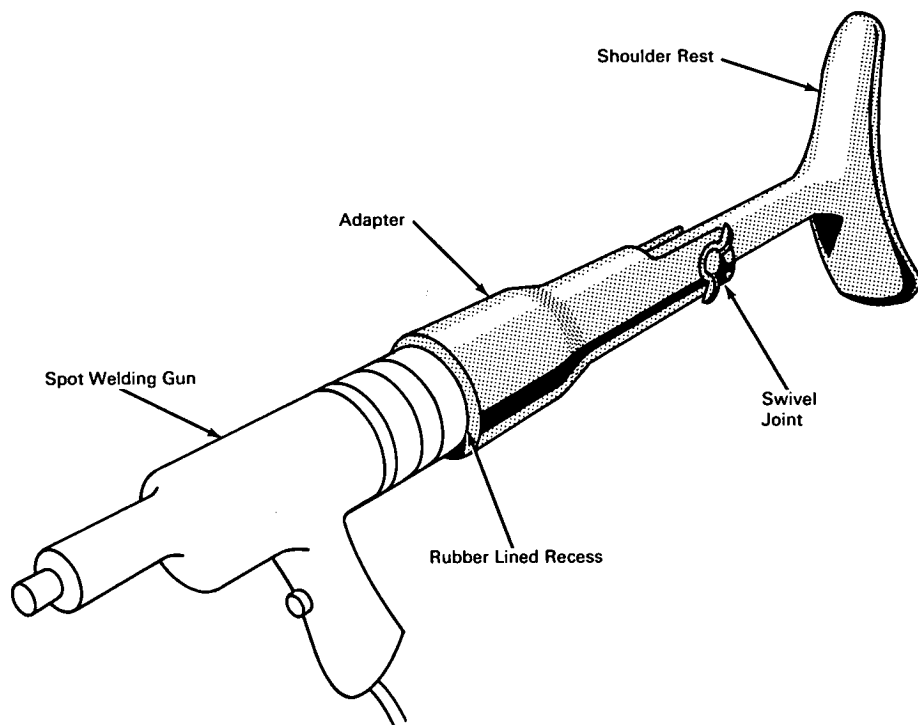


# NASA TECH BRIEF



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## Shoulder Adapter Steadies Spot Welding Gun



### The problem:

A hand-held spot welding gun of relatively new and compact design is difficult to hold in steady contact with the workpiece. Involuntary lateral movements and unsteady pressure of the gun nozzle on the workpiece tend to produce cracks and deformities in the spotwelds.

### The solution:

A shoulder adapter made to fit on one end of the gun.

### How it's done:

The adapter, about 15 to 20 inches long, is made of lightweight metal. One end of the adapter is recessed to fit snugly over the gunstock and the other end is shaped to fit the shoulder. An adjustable swivel joint on the adapter enables it to be used at any convenient angle with respect to the operator's shoulder. With this adapter, the operator can hold the gun steadily at uniform pressure against the workpiece to expedite the welding process and ensure defect-free welds.

(continued overleaf)

**Note:**

Inquiries concerning this invention may be directed to:

Technology Utilization Officer  
Marshall Space Flight Center  
Huntsville, Alabama, 35812  
Reference: B66-10076

**Patent status:**

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D.C., 20546.

Source: T. H. Love  
(M-FS-321)